



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Michael J. Pugia et al.

Attorney 55197-00016USPT  
Docket:

Serial No.: 10/643,862

Group Art: 1723

Filed: August 19, 2003

Examiner: Tony Glen Soohoo

Title: MIXING IN MICROFLUIDIC DEVICES

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§1.97 and 1.98

Mail Stop Amendment  
Commissioner for Patents  
Washington, D.C. 20231

CERTIFICATE OF MAILING  
37 C.F.R. 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, Washington, D.C. on the date indicated below:

Date

9/14/05

Signature

Deborah Ricks

Dear Commissioner:

Pursuant to 37 CFR §§ 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

In accordance with 37 CFR § 1.98(d), any necessary copies are enclosed. However, in accordance with the October 12, 2004 OG Notice, copies of U.S. patents and U.S. published application references are no longer required and, thus, are not enclosed.



In accordance with 37 CFR § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR § 1.56(a) exists. In accordance with 37 CFR § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is or is considered to be "prior art" with respect to the present application or material to patentability as defined in 37 CFR § 1.56.

The present Information Disclosure Statement is being submitted after the mailing of the first Office Action reflecting an examination on the merits but before the mailing of a Final Rejection or Notice of Allowance. In accordance with 37 CFR § 1.97(d), enclosed is a check in the amount of \$180.00 for the fee for filing this Supplemental Information Disclosure Statement. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Deposit Account No. 10-0447/55197-00016USPT.

Respectfully submitted,

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9/14/05  
Date

Form PTO-1449 (modified)

Atty. Docket No.

55197-00016USPT

Serial No.

10/643,862

List of Patents and Publications for Applicant's  
FIRST INFORMATION DISCLOSURE STATEMENT

Applicant

Michael J. Pugia et al.

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## U.S. Patent Documents

Exam.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	A1	3,799,742	03/26/74	C.M. Coleman	23	253 R	
	A2	3,856,649	12/24/74	Genshaw et al.	204	195	
	A3	3,992,158	11/16/76	Przybylowicz et al.	23	253 TP	
	A4	4,233,029	11/11/80	Columbus	23	230R	
	A5	4,310,399	01/12/82	Columbus	204	195 R	
	A6	4,446,232	5/1/84	Liotta	435	7	
	A7	4,515,889	05/07/85	Klose et al.	435	4	
	A8	4,587,220	05/06/86	Mayambala-Mwanika et al.	436	66	
	A9	4,600,507	07/15/86	Shimizu et al.	210	94	
	A10	4,618,476	10/21/86	Columbus	422	100	
	A11	4,647,654	03/03/87	Knowles et al.	530	326	
	A12	4,658,022	04/14/87	Knowles et al.	530	402	
	A13	4,676,274	06/30/87	Brown	137	806	
	A14	4,727,036	02/23/88	Knowles et al.	436	547	
	A15	4,755,472	07/05/88	Ismail et al.	436	66	
	A16	4,806,311	02/21/89	Greenquist	422	56	
	A17	4,908,112	03/13/90	Pace	204	299	
	A18	4,963,498	10/16/90	Hillman et al.	436	69	
	A19	4,968,742	11/06/90	Hillman et al.	436	69	
	A20	4,970,171	11/13/90	Messenger et al.	436	66	
	A21	5,053,197	10/1/91	Bowen	422	58	
	A22	5,089,420	02/18/92	Albarella et al.	436	66	
	A23	5,096,836	03/17/92	Macho et al.	436	169	
	A24	5,110,555	05/05/92	Moore et al.	422	100	
	A25	5,141,868	08/25/92	Shanks et al.	435	288	
	A26	5,151,369	09/29/92	Lewis et al.	436	67	
	A27	5,160,702	11/03/92	Kopf-Sill et al.	422	72	

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

CHICAGO 315834v1 55197-00016USPT

Form PTO-1449 (modified)	Atty. Docket No. 55197-00016USPT	Serial No. 10/643,862
List of Patents and Publications for Applicant's <b>FIRST INFORMATION DISCLOSURE STATEMENT</b>	Applicant Michael J. Pugia et al.	
	Filing Date: August 19, 2003	Group: 1723

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	A28	5,164,598	11/17/92	Hillman et al.	250	341	
	A29	5,180,480	01/19/93	Manz	204	299 R	
	A30	5,187,104	02/16/93	Corey et al.	436	86	
	A31	5,202,261	04/13/93	Musho et al.	435	88	
	A32	5,208,163	05/04/93	Charlton et al.	436	63	
	A33	5,250,439	10/05/93	Musho et al.	435	25	
	A34	5,258,311	11/02/93	Lewis et al.	436	63	
	A35	5,279,790	01/18/94	Nilsson et al.	422	102	
	A36	5,286,454	02/15/94	Nilsson et al.	422	102	
	A37	5,296,192	03/22/94	Carroll et al.	422	56	
	A38	5,318,894	06/07/94	Pugia	435	28	
	A39	5,360,595	11/01/94	Bell et al.	422	56	
	A40	5,372,918	12/13/94	Usui et al.	430	379	
	A41	5,424,125	06/13/95	Ballard et al.	428	364	
	A42	5,443,890	08/22/95	Öhman	428	167	
	A43	5,458,852	10/17/95	Buechler	422	58	
	A44	5,478,751	12/26/95	Oosta et al.	436	165	
	A45	5,585,069	12/17/96	Zanzucchi et al.	422	100	
	A46	5,631,303	05/20/97	Reinecke	521	40.5	
	A47	5,716,741	02/10/98	Reinecke et al.	430	8	
	A48	5,716,851	02/10/98	Pugia et al.	436	86	
	A49	5,826,981	10/27/98	Fowler et al.	366	337	
	A50	5,834,314	11/10/98	Gates et al.	436	52	
	A51	5,837,200	10/17/98	Diessel et al.	422	73	
	A52	5,851,776	12/22/98	Valkirs	435	7.1	
	A53	5,866,345	02/02/99	Wilding et al.	435	7.21	
	A54	5,885,527	03/23/99	Buechler	422	58	
	A55	5,912,134	06/15/99	Shartle	435	7.24	
	A56	5,922,615	07/13/99	Nowakowski et al.	436	518	
	A57	5,932,315	08/03/99	Lum et al.	428	172	

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	A58	5,939,272	08/17/99	Buechler et al.	435	7.1	
	A59	5,942,443	08/24/99	Parce et al.	436	514	
	A60	5,948,227	09/07/99	Dubrow	204	455	
	A61	5,955,028	09/21/99	Chow	422	63	
	A62	5,957,579	09/28/99	Kopf-Sill et al.	366	340	
	A63	5,958,203	09/28/99	Parce et al.	204	451	
	A64	5,958,694	09/28/99	Nikiforov	435	6	
	A65	5,959,291	09/28/99	Jensen	250	214 R	
	A66	5,964,995	10/12/99	Nikiforov et al.	204	450	
	A67	5,965,001	10/12/99	Chow et al.	204	600	
	A68	5,965,375	10/12/99	Valkirs	435	7.2	
	A69	5,965,410	10/12/99	Chow et al.	435	91.2	
	A70	5,972,187	10/26/99	Parce et al.	204	453	
	A71	5,976,336	11/02/99	Dubrow et al.	204	453	
	A72	5,985,579	11/16/99	Buechler et al.	435	7.1	
	A73	5,989,402	11/23/99	Chow et al.	204	601	
	A74	5,994,150	11/30/99	Challener et al.	436	518	
	A75	6,001,231	12/14/99	Kopf-Sill	204	454	
	A76	6,002,475	12/14/99	Boyd et al.	356	246	
	A77	6,004,515	12/21/99	Parce et al.	422	100	
	A78	6,011,252	01/04/00	Jensen	250	214 R	
	A79	6,012,902	01/11/00	Parce	417	48	
	A80	6,019,944	02/01/00	Buechler	422	58	
	A81	6,024,138	02/15/00	Fritz et al.	141	31	
	A82	6,030,581	02/29/00	Virtanen	422	68.1	
	A83	6,037,455	03/14/00	Buechler	530	404	
	A84	6,042,709	03/28/00	Parce et al.	204	453	
	A85	6,042,710	03/28/00	Dubrow	204	454	
	A86	6,043,043	03/28/00	Yip	435	72	
	A87	6,046,056	04/04/00	Parce et al.	436	514	

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List of Patents and Publications for Applicant's <b>FIRST INFORMATION DISCLOSURE STATEMENT</b>	Applicant Michael J. Puglia et al.	
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	A88	6,048,498	04/11/00	Kennedy	422	99	
	A89	6,068,752	05/30/00	Dubrow et al.	204	604	
	A90	6,071,478	06/06/00	Chow	422	81	
	A91	6,074,725	06/13/00	Kennedy	428	188	
	A92	6,080,295	06/27/00	Parce et al.	204	451	
	A93	6,086,740	07/11/00	Kennedy	204	601	
	A94	6,086,825	07/11/00	Sundberg et al.	422	100	
	A95	6,090,251	07/18/00	Sundberg et al.	204	453	
	A96	6,100,099	08/08/00	Gordon et al.	436	518	
	A97	6,100,541	08/08/00	Nagle et al.	250	573	
	A98	6,106,779	08/22/00	Buechler et al.	422	55	
	A99	6,107,044	08/22/00	Nikiforov	435	6	
	A100	6,113,855	09/05/00	Buechler	422	58	
	A101	6,123,798	09/26/00	Gandhi et al.	156	292	
	A102	6,129,826	10/10/00	Nikiforov et al.	204	450	
	A103	6,130,098	10/10/00	Handique et al.	436	180	
	A104	6,132,685	10/17/00	Kercso et al.	422	104	
	A105	6,136,610	10/24/00	Polito et al.	436	514	
	A106	6,143,576	11/07/00	Buechler	436	518	
	A107	6,148,508	11/21/00	Wolk	29	825	
	A108	6,149,870	11/21/00	Parce et al.	422	100	
	A109	6,150,119	11/21/00	Kopf-Sill et al.	435	7.1	
	A110	6,150,180	11/21/00	Parce et al.	436	514	
	A111	6,156,270	12/5/00	Buechler	422	58	
	A112	6,176,119 B1	01/23/01	Kintzig	73	53.01	
	A113	6,176,991 B1	01/23/01	Nordman	204	601	
	A114	6,185,029 B1	02/06/01	Ishihara	359	216	
	A115	6,207,000 B1	03/27/01	Schwobel et al.	156	248	
	A116	6,235,175 B1	05/22/01	Dubrow et al.	204	453	
	A117	6,238,538 B1	05/29/01	Parce et al.	204	600	

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List of Patents and Publications for Applicant's <b>FIRST INFORMATION DISCLOSURE STATEMENT</b>	Applicant Michael J. Puglia et al.	
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	A118	6,251,567 B1	06/26/01	Reinecke et al.	427	581	
	A119	6,254,754 B1	07/03/01	Ross et al.	204	548	
	A120	6,281,254 B1	08/28/01	Nakajima et al.	516	53	
	A121	6,268,025 B1	07/31/01	Reinecke et al.	427	581	
	A122	6,284,113 B1	09/04/01	Bjornson et al.	204	453	
	A123	6,287,520 B1	09/11/01	Parce et al.	422	100	
	A124	6,296,020 B1	10/02/01	McNeely et al.	137	806	
	A125	6,296,126 B1	10/02/01	Peters	210	456	
	A126	2001/0037099 A1	11/01/01	Effenhauser	604	352	02/27/01
	A127	6,319,469	11/20/01	Mian et al.	422	64	
	A128	6,321,791 B1	11/17/01	Chow	137	833	
	A129	6,322,683 B1	Wolk et al.	204	600		
	A130	2002/0023684 A1	02/28/02	Chow	137	833	6/8/01
	A131	6,379,974 B1	04/30/02	Parce et al.	436	180	
	A132	6,428,664 B1	08/06/02	Bhullar et al.	204	403.03	
	A133	2002/0112961 A1	08/22/02	O'Connor et al.	204	601	4/17/02
	A134	2002/0114738 A1	08/22/02	Wyzgol et al.	422	100	10/25/01
	A135	6,540,896 B1	04/01/03	Manz et al.	204	451	
	A136	6,582,662 B1	06/24/03	Kellogg et al.	422	72	
	A137	6,632,399 B1	10/14/03	Kellogg et al.	422	72	
	A138	6,379,974 B1	04/30/02	Parce et al.	436	180	
	A139	6,653,625 B2	11/25/03	Andersson et al.	250	288	
	A140	6,709,559 B2	03/23/04	Sundberg et al.	204	604	
	A141	6,734,401 B2	05/11/04	Bedingham et al.	219	388	
	A142	6,776,965 B2	08/17/04	Wyzgol et al.	422	100	
	A143	6,811,752 B2	11/02/04	Barbera-Guillem	422	100	
	A144	6,878,555 B2	04/12/05	Andersson et al.	436	180	

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### Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	WO 95/17965	07/06/95	PCT	B01L	3/00	
	B2	EP 0 693 560 A1	01/24/96	Europe	C12Q	1/68	
	B3	WO 97/01055	01/09/97	PCT	F16K	7/17	
	B4	WO 99/46045 A1	09/16/99	PCT	B01L	3/00	
	B5	WO 00/22436	04/20/00	PCT	G01N	33/567	
	B6	WO 00/21728	04/20/00	PCT	B29C	33/38	
	B7	WO 00/25921	05/11/00	PCT	B01L	3/00	
	B8	WO 00/34781 A2	06/15/00	PCT	G01N	33/53	
	B9	WO 00/34781 A3	06/15/00	PCT	G01N	33/553	
	B10	WO 00/36416 A1	06/22/00	PCT	G01N	33/543	
	B11	EP 1 013 341 A2	06/28/00	Europe	B01L	3/00	
	B12	EP 1 013 341 A3	01/10/01	Europe	B01L	3/00	
	B13	WO 01/12329 A1	02/22/01	PCT	B01L	3/02	
	B14	WO 01/14063 A1	03/01/01	PCT	B01L	3/00	
	B15	WO 01/14116 A1	03/01/01	PCT	B29C	33/42	
	B16	WO 01/19586 A1	03/22/01	PCT	B29C	33/42	
	B17	WO 01/24931 A1	04/12/01	PCT	B01L	3/00	
	B18	WO 01/54810 A1	08/02/01	PCT	B01J	19/00	
	B19	WO 02/18053 A1	03/07/02	PCT	B01L	3/02	
	B20	WO 02/28532 A2	04/11/02	PCT	B01L	3/00	
	B21	WO 02/28532 A3	04/11/02	PCT	B01L	3/00	
	B22	EP 1 013 341 B1	12/10/03	Europe	B01L	3/00	
	B23	CA 2,323,424	03/08/05	Canada	B01L	3/00	

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C01	

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